Ship Maintenance Organization

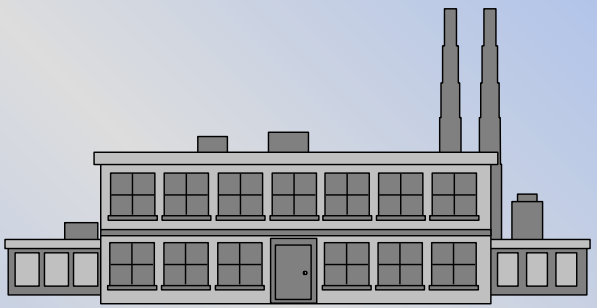
FROM KNOWLEDGE

"Prompt and Sustained Combat Operations at Sea on a Continuing Basis"

Chief of Naval Operation

EFFECTIVENESS

Aboard Ship



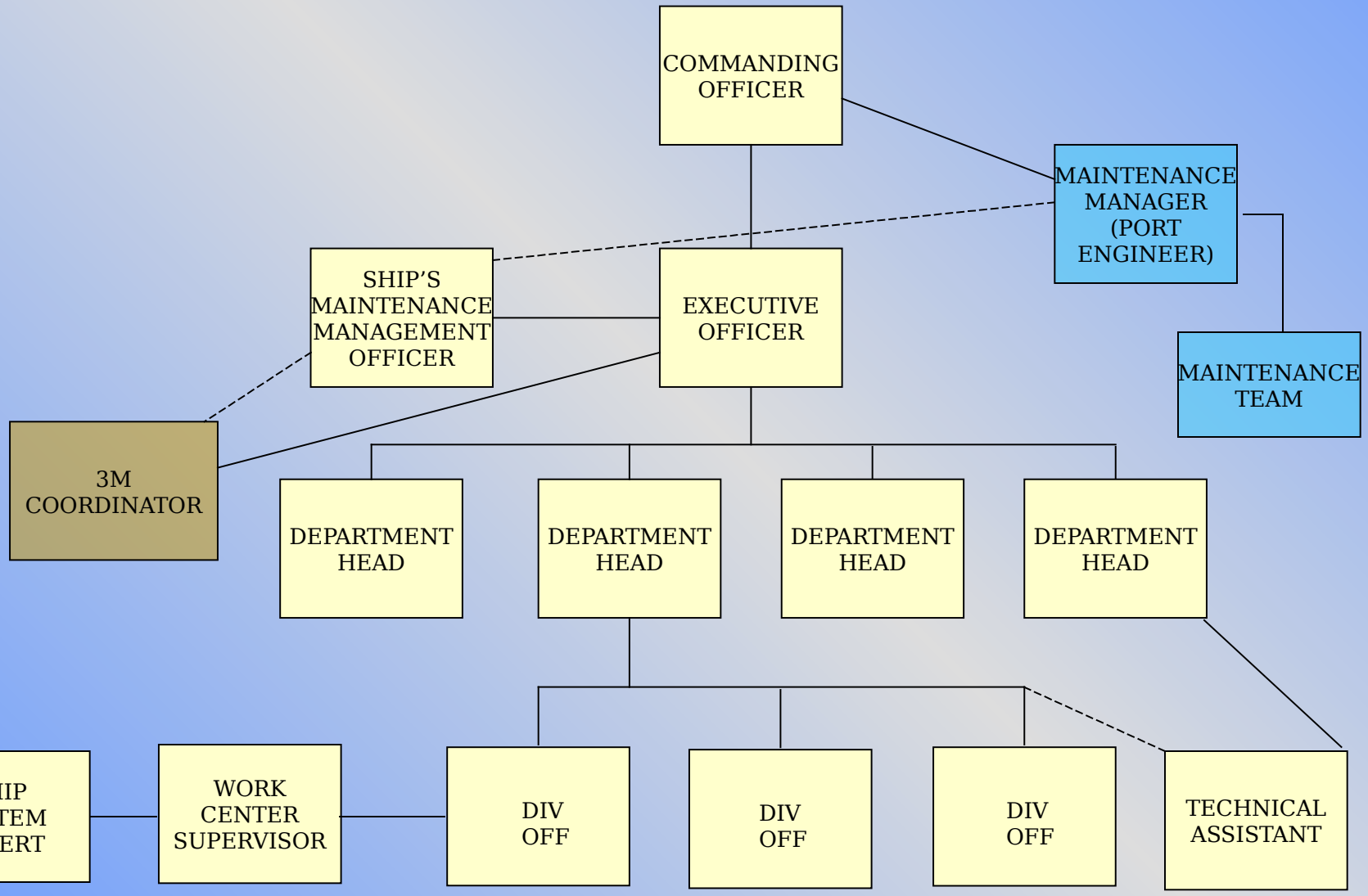
Ashore

Section 1 0f 4

Ship Maintenance Organization

Permanent Ship Organization

Typical Ship Maintenance Management Organization



Ship Maintenance Organization

CNSF SHIPMAIN Notices and CNSL Best Practice

Integration of Ship's Maintenance

- *Maintenance Team*
- *Integrated Readiness Plan*
- *Planning Board for Maintenance (and Readiness)*

Ship Leadership and Maintenance Team

- *Commanding Officer – MT leader*
- *Executive Officer – administrator*
- *Port Engineer – MT coordinator*
- *Ship's Maintenance Management Officer (SMMO)*
  - *MT member*
  - *Onboard coordinator*
- *Department Heads – implementers*
- *3-M Coordinator – data manager, administrator*

Port Engineer Responsibilities (From CNSF NOTE 4701)

- *Primary advisor to ship's Commanding Officer*
  - *Support ship and RMC maintenance goals*
- *Maintenance Team Coordinator*
  - *Provide Long Term Continuity*
- *First point-of-contact maintenance broker*
  - *Support RMC maintenance goals*
- *Manager of all off-ship maintenance; comply with*
  - *TYCOM maintenance & mo policies & budgets*
  - *Appropriate technical direction*

Not a substitute for strong ship's force involvement

Port Engineer Other Responsibilities…

From CNSLINST 9000.20

- *For ISIC, provide*
  - *Technical advice*
  - *Maintenance status*

Port Engineer
Four Principal Roles

Traditional Role

- *Management of ship maintenance*
- *Technical expertise*
- *Availability coordination*

Added by SHIPMAIN Process

- *Budgeting for ship maintenance*

Assisted by Maintenance Team

Port Engineer Management of Ship Maintenance

- *Assist ship in validating CSMP*
- *Ensure a cost estimate for all off-ship items in CSMP*
- *Assist ship with coordinating ICAVs*
- *Provide on-scene assessment of equipment condition*

Assisted by Maintenance Team

Port Engineer
Budgeting for Ship Maintenance

- *Develop first cut estimate for the ship's maintenance funding requirements*
- *Review funding requirements with Commanding Officer; submit as ship's "Maintenance Business Plan"*
- *Negotiate adjustments to business plan with RMC*

Assisted by Maintenance Team

Port Engineer
Technical Expertise

- *Assist the Commanding Officer in maintaining a current, valid CSMP*
  - *Requires a team effort, too much for one person*
- *Provide technical advice and guidance to ship's force on maintenance and modernization*
- *Ensure alteration requests reviewed for*
  - *Enhanced mission effectiveness*
  - *Improved safety*
  - *Reduction in maintenance costs*
  - *[illegible] policy*

Assisted by Maintenance Team

Maintenance Team Availability Coordination

- *Develop, plan, and coordinate*
  - *Scheduled availabilities*
  - *Continuous maintenance opportunities*
  - *Emergent repairs*
- *Determine appropriate availability and maintenance activity to be used in the accomplishment of work candidates*
- *Serve as RMC point of contact in coordinating maintenance and planning activities in support of off-ship maintenance*

Ship Member Maintenance Team

- Ship's Maintenance Management Officer
  - Collateral Duty
  - Shipboard Coordinator
  - Action Officer
  - Technical Backgrou

Primary Shipboard Point of Contact

Required Position SORM, 305.11

Ship Member Maintenance Team

Ship Maintenance Management Officer Typical Selections

MCM/MHC/FFG
"Best Fit"

DD/DDG
CS or OPS
LDO/CWO

LHA/LHD/A
OE
Primary Duty
LDO/CWO

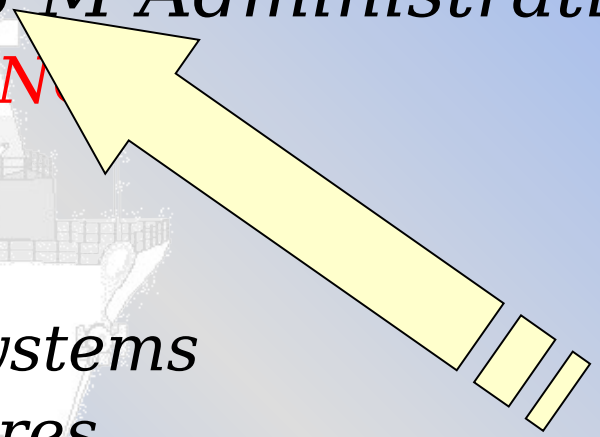
CG
Eng or CS
LDO/CWO

Ship's Leadership Support to Maintenance Team

- *Supply Officer*
  - *Configuration management*
    - *Primary officer responsible for shipboard configuration management (CNSL/CNSPINST 4400.1J, para 6600)*
  - *Logistics technical support*
  - *Parts control*
  - *Fiscal management*

Ship's Leadership Support to Maintenance Team

- 3-M Coordinator
  - Responsible for CSMP Administrative Accuracy
  - Manages Shipwide 3-M Administration
    - INCLUDING TRAINING
  - Ship's 3-M Expert
    - Administration
    - Maintenance ADP Systems
    - MDS Use & Procedures
  - Direct Liaison
    - Supply Officer, SMMO, MM (PE)



Maintenance Report

WEEKLY PMS SUMMARY (1/14-1/20)	Scheduled	Completed	Resched	Expired	Partial	RAR	E-6 & Up Availability	E-6 & Up Spotchecks	Spotcheck Performance
EXECUTIVE	6	6				100%	5	0	0%
OPERATIONS	36	36				100%	15	15	100%
COMBAT SYSTEMS	217	210	7			97%	15	16	107%
WEAPONS	73	73				100%	14	11	79%
ENGINEERING	228	227	1			100%	20	16	80%
SUPPLY	13	13				100%	13	11	85%
Command Totals:	**573**	**565**	**8**	**0**	**0**	99%	**82**	**69**	84%

13-WEEK PMS SUMMARY	Scheduled	Completed	Resched	Expired	Partial	RAR	E-6 & Up Availability	E-6 & Up Spotchecks	Spotcheck Performance %
EXECUTIVE	75	74	1			99%	80	51	64%
OPERATIONS	368	365		3		99%	286	284	99%
COMBAT SYSTEMS	1509	1482	24	3		98%	459	601	131%
WEAPONS	1315	1309		6		100%	189	169	89%
ENGINEERING	3075	3049	17	9		99%	543	477	88%
SUPPLY	89	85	4			96%	461	430	93%
Command Totals:	**6431**	**6364**	**46**	**21**	**0**	**99%**	**2018**	**2012**	100%

MDS SUMMARY

CSMP Deferral Totals (Wed 6 FEB 02)	EXEC	OPS	CBS	WEPS	ENG	SUP	SHIP TOTAL
T/A=1 (Depot Level Work)	1	7	13	17	94	25	157
Safety Related T/A=1	0	1	0	0	5	0	6
T/A=2 (IMA Level Work)	15	80	20	44	112	17	288
Safety Related T/A=2	2	4	0	0	5	2	13
T/A=3 (Tech Assist Level Work)	0	9	13	64	29	2	117
Safety Related T/A=3	0	0	0	2	0	0	2
T/A=4 (Ship's Force Level Work)	23	81	296	134	437	37	1008
Safety Related T/A=4	3	2	5	2	8	5	25
Total Active CSMP Deferrals	39	177	342	259	672	81	**1570**
Total Active SAFETY Related CSMP Deferrals	5	7	5	4	18	7	**46**
Total Active CASREPs	0	0	5	2	1	0	**8**
Last Zone Inspection	17-Dec-01	21-Jan-02	7-Jan-02	26-Nov-01	14-Jan-02	28-Jan-02	**Last Report Totals**
Next Zone Inspection	4-Mar-02	25-Feb-02	18-Feb-02	4-Feb-02	18-Mar-02	15-Apr-02	**1494(48)**

CSMP Growth (24 Jan- 6 Feb):	343	JSNs Completed:	267	Next FMAV:	**222** 25 Feb-15Mar	
Active Work Packages: 0	Wk Pkgs Reviewed	CO:	0	DEPT	0	DIV 0
Gauge Calibration Percentage: 87% 3JAN02			Electronic Calibration Percentage: 85% 4 FEB02			

MT Business Plan Basics

- *Built by the Maintenance Team*
- *Based on documented deficiencies in the CSMP, ICMMP, Modernization Plans, and Historical Data*
- *Establishes the quarterly allocation of funds that the team will utilize to support the ship*
- *Reflects the ship's operational cycle and predefined maintenance periods.*

USS SAMPLE TEMPLATE
CG-XX
MAINTENANCE BUSINESS PLAN
EXECUTIVE SUMMARY / COVER PAGE
FY 2004

SCHEDULE OVERVIEW

EVENT	DATES
•Surge Ready Asset	01 OCT 03- 01 JAN 04
•FMAV	20 OCT- 14 NOV 03
•INSURV	17 NOV 03
•CNO Avail DSRA 04	07 JAN 04- 26 MAY 04
•HME&RA/C5RA	14 JUN -25 JUN 04
•Follow on FMAV	06 JULY 04- 23 JULY 04
•Initial Assessment	21 AUG 04
•Underway Demo	10 OCT 04
•FEP	23 OCT 04
•Deployment	01 OCT 05
•Cruiser Conversion	FY 06

MAINTENANCE FUNDING REQUIREMENTS

•First Quarter FMAV (ISO INSURV)	
•Continuous Maintenance	$
•DSRA 04 Funding	$
•TYCOM Funding	$
•NAVSEA Funding	$
•Phasing Plan	$
•Concurrent FMAV 451	$
•Post DSRA FMAV 422	$

FOM THRESHOLD (XXX)

USS SAMPLE TEMPLATE
MT Business Plan Table of Contents

Section 1: Maintenance Team Business Plan Approval Flowchart

Section 2: Schedules

- Employment, Events, Planning & Execution Milestones

Section 3: Modernization and Alterations

- NAVSEA & TYCOM S/A Ltrs, FORCENET Matrix/NITRA

Section 4: Maintenance

- CSMP, ICMMP, DFS's, HAB

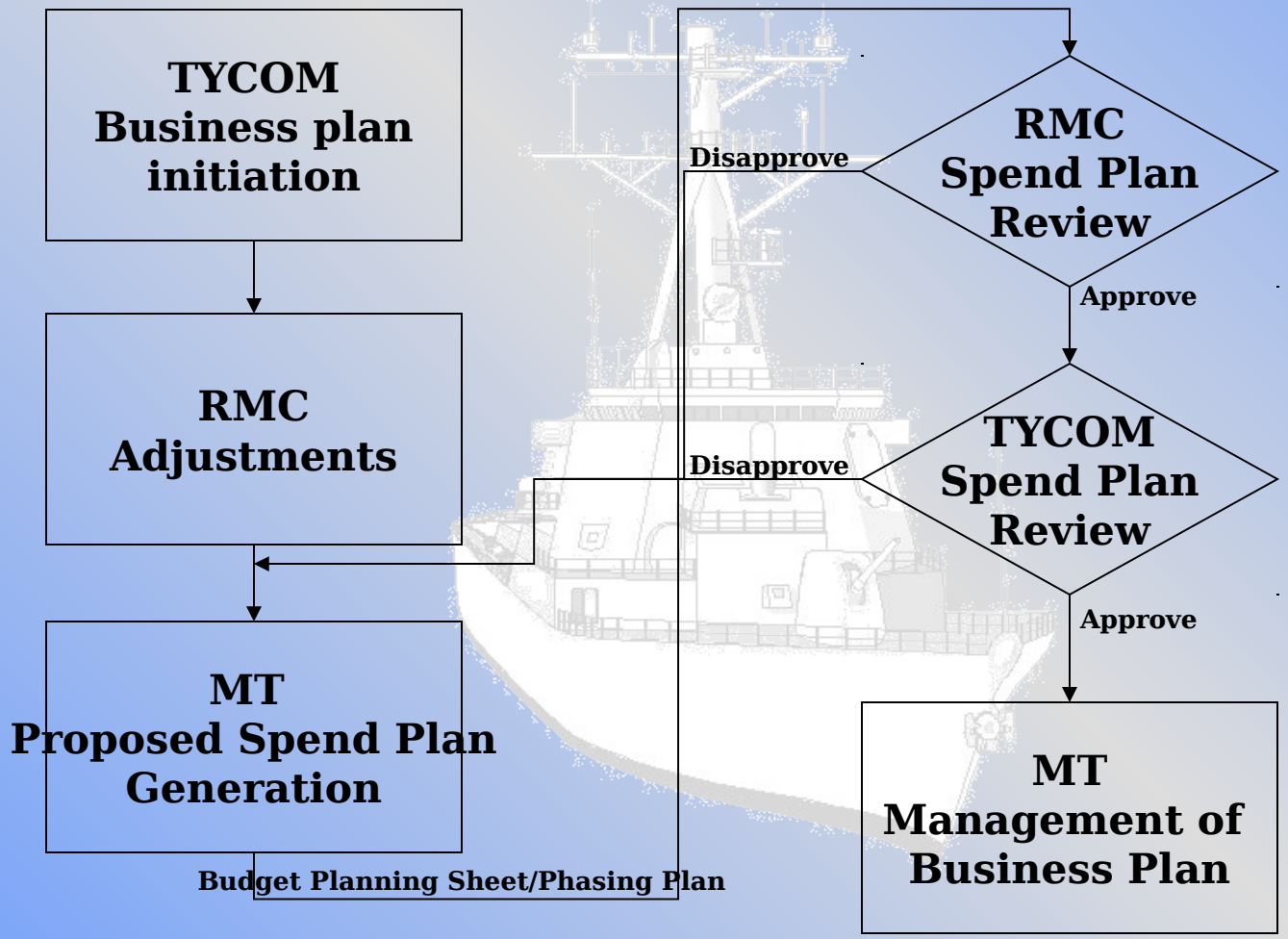
Section 5: TYCOM Material Readiness Requirements

- FOM Threshold, Mission Area Readiness Requirements

Section 6: Funding

- TYCOM/RMC Inputs
- MT Budget Planning Sheet & Phasing Plan

MT Business Plan Approval Process
Section 1



Schedules Section - MT Business Plan
Section 2

- Employment Schedule (FRP)
  - CNSL (X drive: N3: FRP Notional Schedule.ppt)
    also
    http://www.spear.navy.mil/LOGIN/Schedules.htm
    (Projected Depot Maintenance Schedules and AIT schedules)
  - CNSP (http://www.cnsp.navy.mil/n3_n5intra.default.asp)
- Events
  - Provided by Ship's Operations Officer

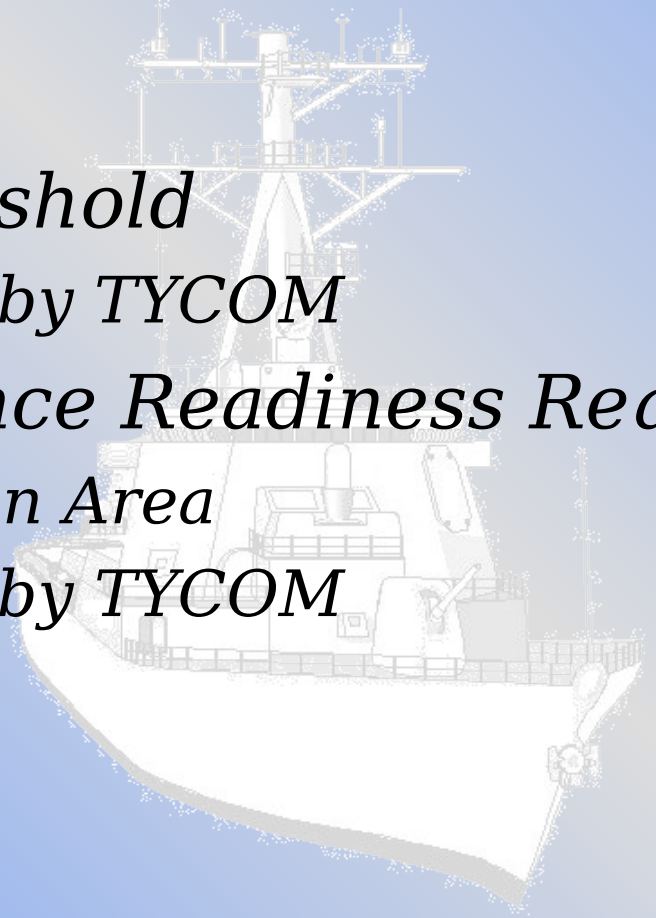
Modernization Section - Business Plan
Section 3

- NAVSEA SHIPALT letters
- TYCOM SHIPALT letters
- SPAWAR Planned Alts
  - Located on FORCENET MATRIX/NITRA
  - Account from SSC Charleston required

Maintenance Section - MT
Business Plan
Section 4

- *Ship's CSMP*
  - *Key or Critical Path items with major schedule or budget impact*
- *Refer to ICMMP*
- *Departure from Specifications*
- *Habitability Plan*
  - *CNSL: https://www.habitability.net*
  - *CNSP: https://www.navysupportonline.com/Habitability/*

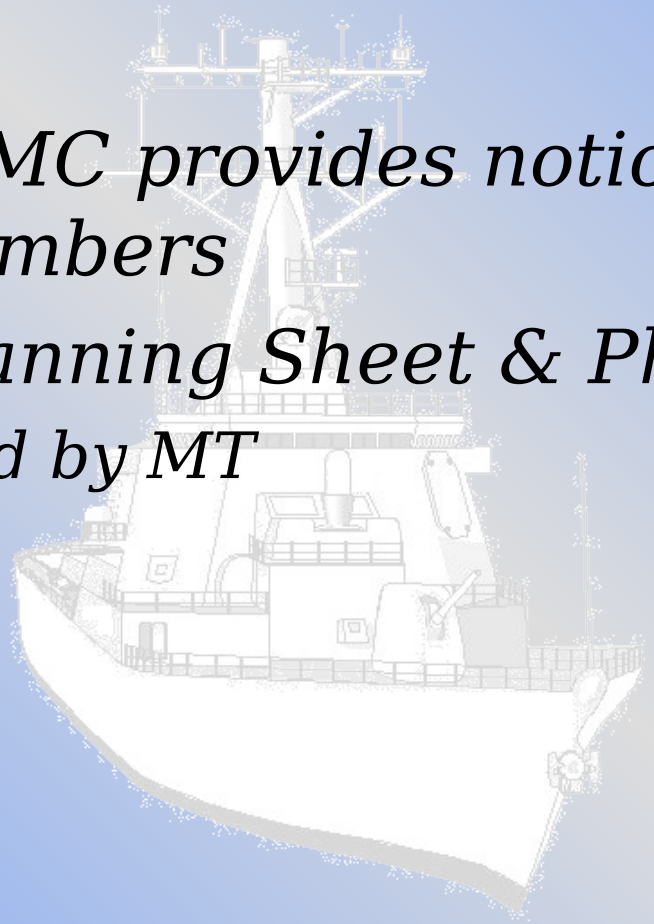
Material Readiness Section
MT Business Plan
Section 5



- *FOM Threshold*
  - *Provided by TYCOM*
- *Maintenance Readiness Requirements*
  - *By Mission Area*
  - *Provided by TYCOM*

Funding Section - MT Business Plan Section 6

- *TYCOM/RMC provides notional budget control numbers*
- *Budget Planning Sheet & Phasing Plan*
  - *Developed by MT*



Budget Planning Sheet And Phasing Plan

FY 05 Budget for USS SHIP (CLS-0)

		Q1	Q2	Q3	Q4
FY 05 CNO Avail Budget Total	$0	$0	$0	$0	$0

	CSMP Now (#AWRs)	Expected CSMP @ lock (#AWRs)	Budget Requirement	Comments
Repair Total	0	0	$0	Package Locked
HM&E (Detail, if req)				Labor and material
CS/C4I (Detail, if req)				Labor and material
Modernization	0	0	$0	
Fleet SHIPALTS				Labor and material
Program SHIPALTS				TYCOM Pro-ration cost
a. Package Subtotal			$0	
b. Current year Adv Pln if any			$0	late FY avails especially
c. Growth (X% of a.)			$0	% based on CNSF Policy
d. Service/Support (X% of a.)			$0	800/900's, if not included above
e. LLTM			$0	GFM or items not in a. already
f. Award/Incentive Fee (X% of a.-e.)			$0	Budget max % possible in contract
g. Other costs (expl. in summary)				

		Q1	Q2	Q3	Q4
FY 05 CM Budget Total	$0	$0	$0	$0	$0

	# AWR's pending	# AWR's expected	ROM $'s	
Repair Total	0	0	$0	
HM&E (Detail, if req)				Labor and material
CS/C4I (Detail, if req)				Labor and material
Assessment/Grooms				
Modernization	0	0	$0	
Fleet SHIPALTS				Labor and material
Program SHIPALTS				TYCOM Pro-ration cost
a. CM Package Subtotal			$0	
b. Growth (X% of a.)			$0	% based on CNSF Policy
d. Award/Incentive Fee (X% of a.-b.)			$0	Budget max % possible in contract
e. Other costs (expl. in comnts)				

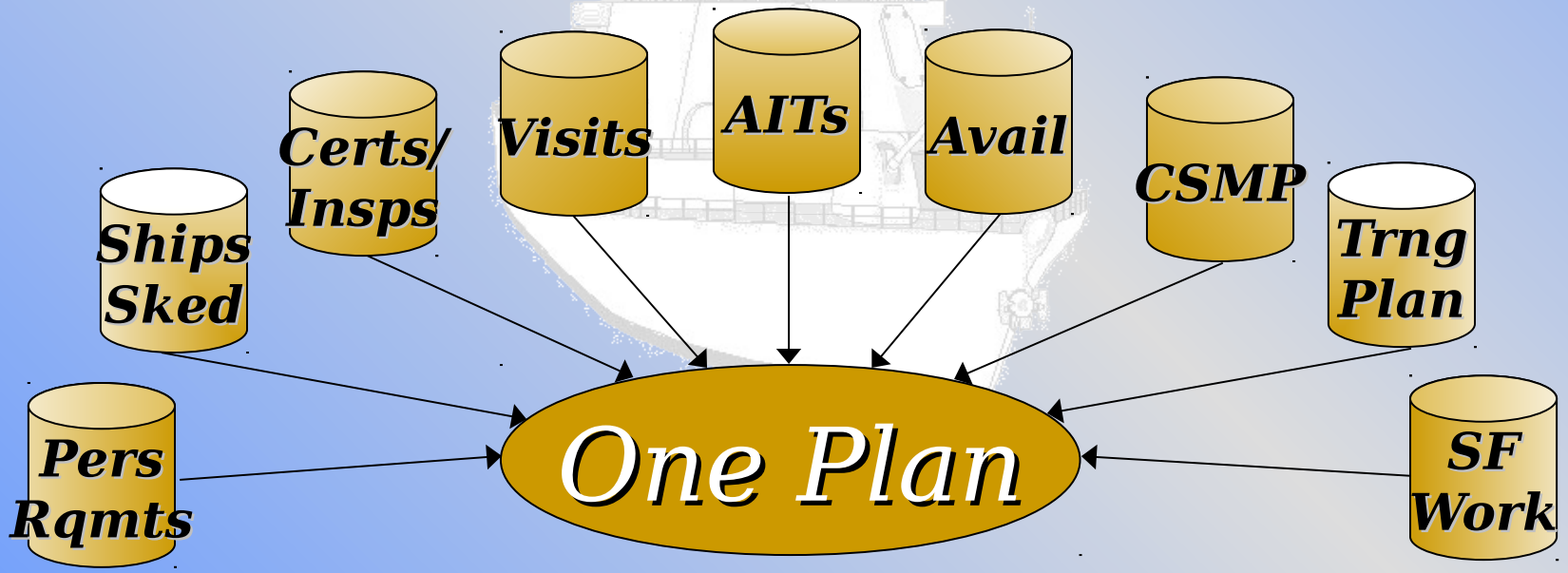
		Q1	Q2	Q3	Q4
FY 03 / 04 or 05 / 06 CNO Avail Advance Funding	$0				
FY 05 Total Phasing Plan	$0	$0	$0	$0	$0

Comments from CMC, USS Monterey

"Use a "rigorous planning board for readiness" process…The idea that a planning board for readiness can be concluded without a detailed agenda and produce only a plan of the week or some other schedule makes little sense. Planning and scheduling are not the same."

Planning Board for Readiness

- Evolution
  - Evolution of Planning Board for Training



Planning Board for Readiness

Methods and Procedures

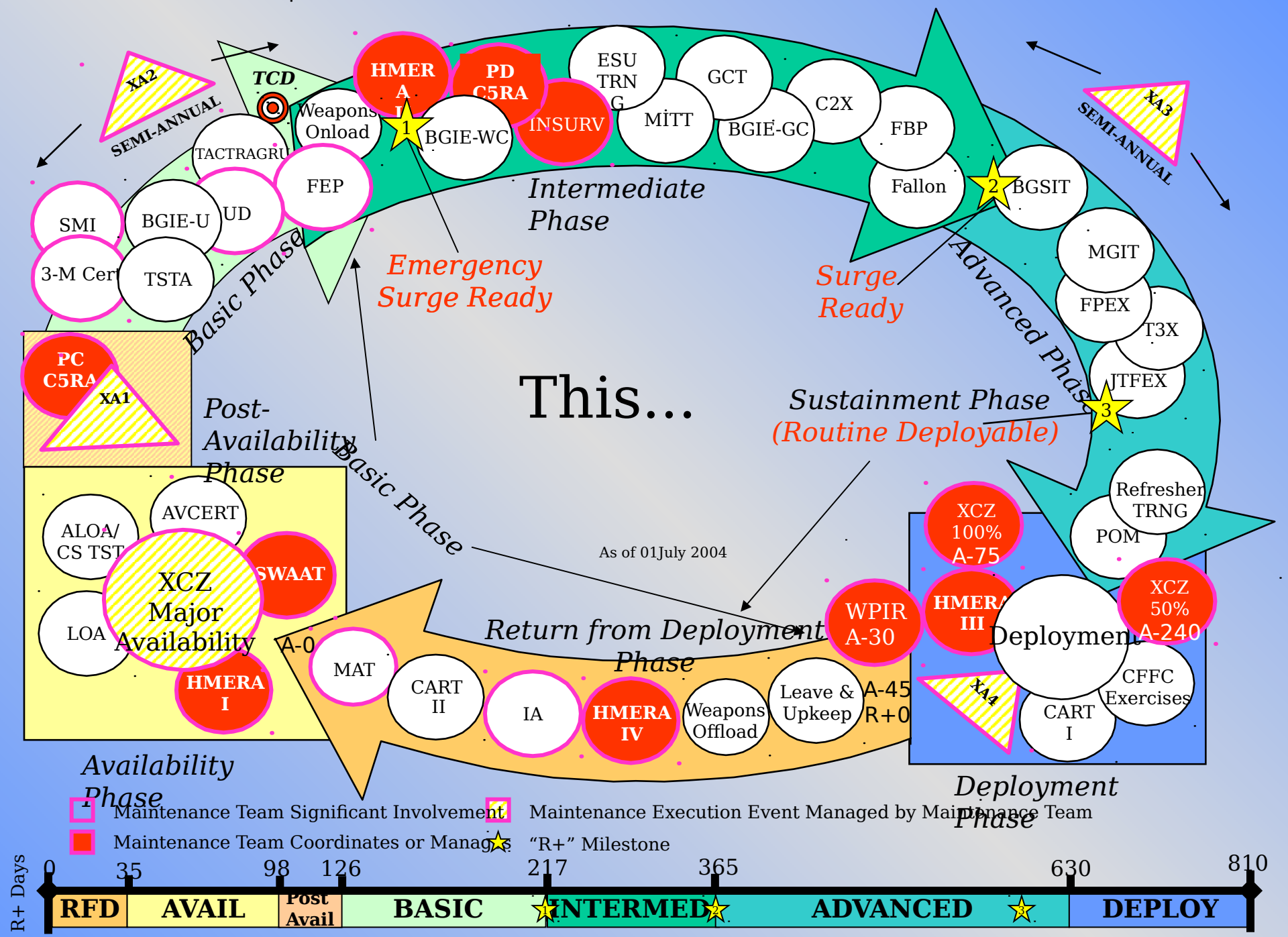
Weekly or Bi-weekly Meetings

Membership from:

Maintenance Team

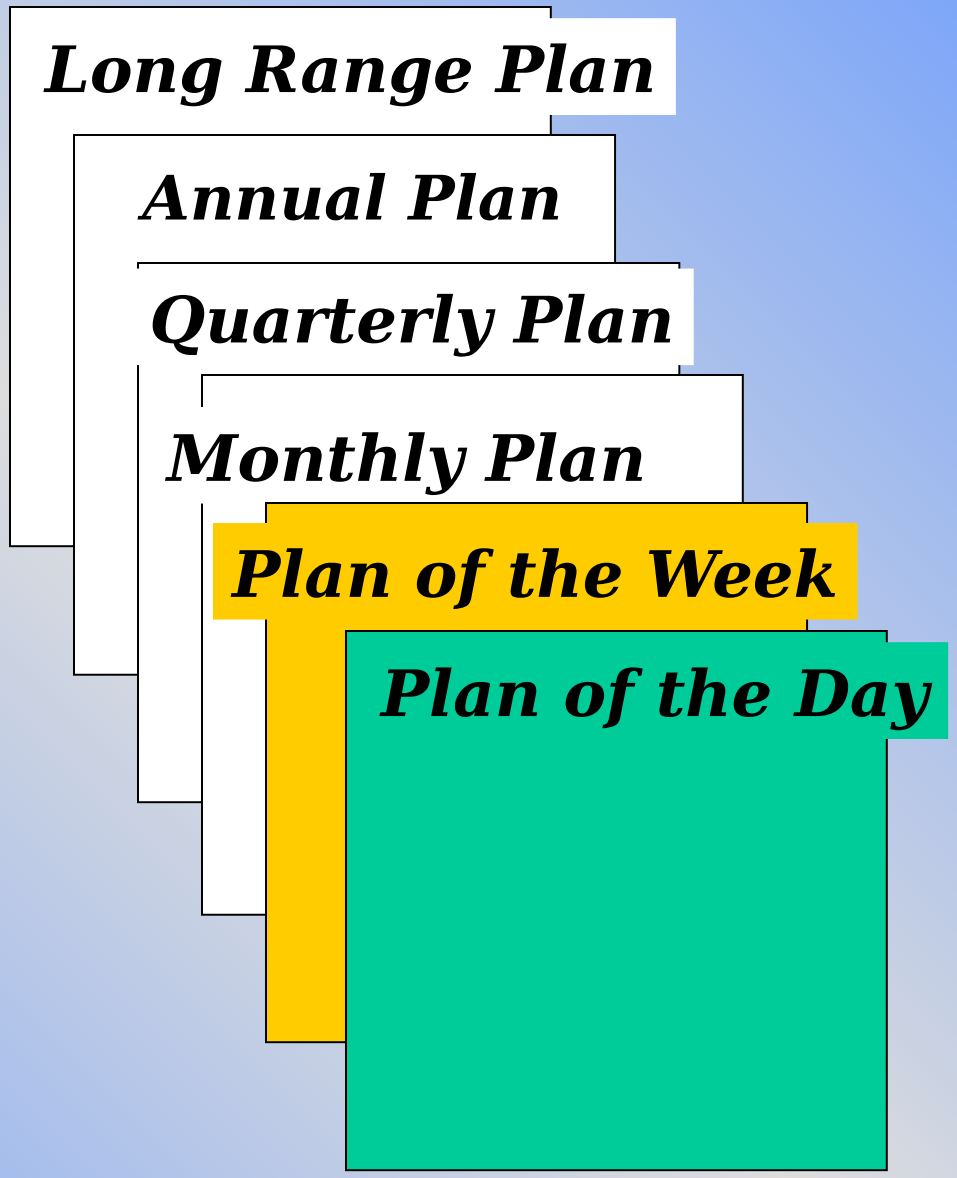
Planning Board for Training

WHY? *To Control…*

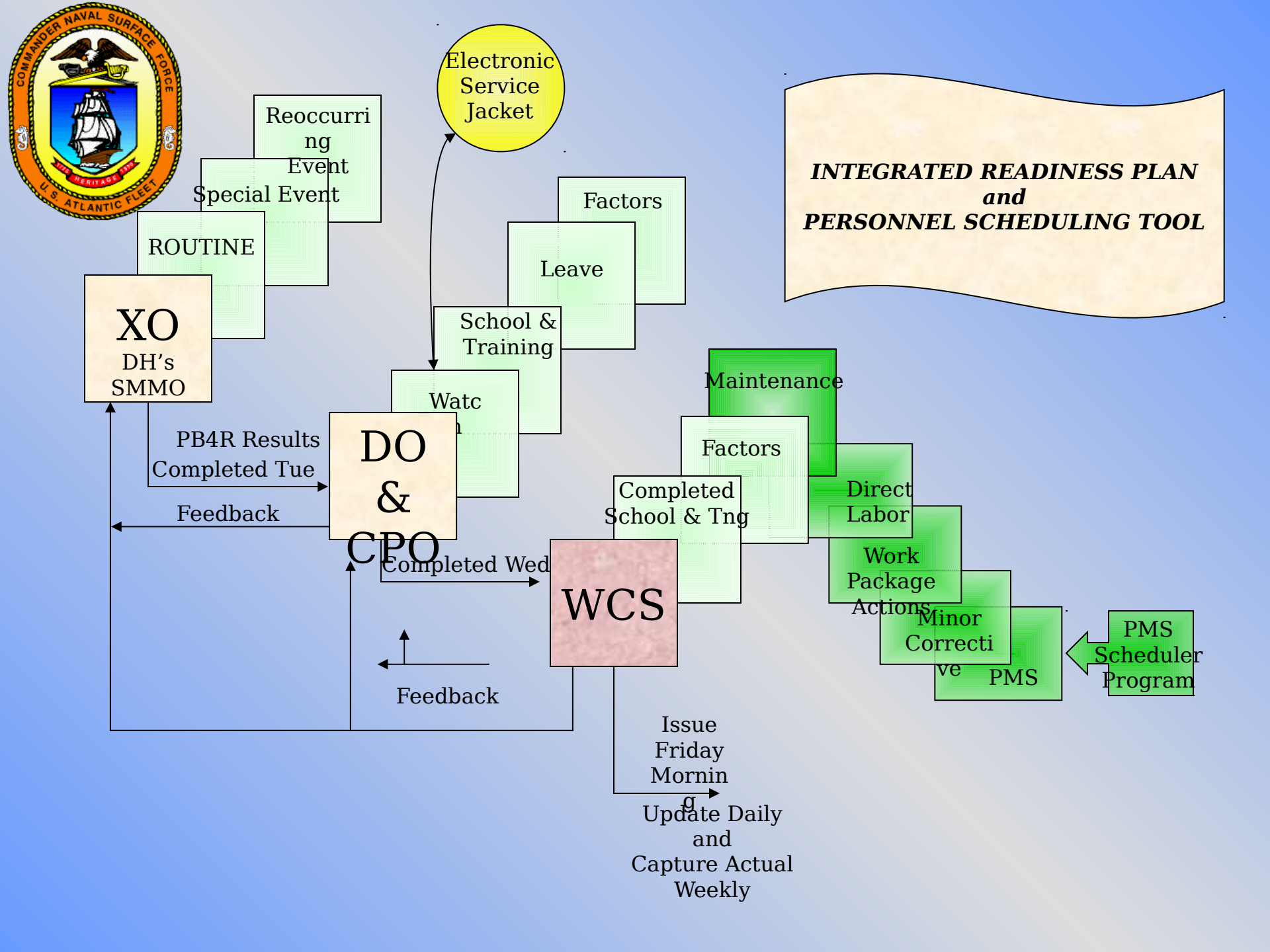

This...
As of 01July 2004
Post-Availability Phase
Basic Phase
Intermediate Phase
Basic Phase
Advanced Phase
Sustainment Phase
(Routine Deployable)
Deployment Phase
Return from Deployment Phase
Availability Phase
Emergency Surge Ready
Surge Ready
XA2
SEMI-ANNUAL
TCD
HMERA II
PD C5RA
INSURV
ESU TRNG
GCT
C2X
FBP
BGSIT
MITT
BGIE-GC
BGIE-WC
Weapons Onload
TACTRAGRU
FEP
UD
SMI
BGIE-U
3-M Cert
TSTA
XA3
SEMI-ANNUAL
MGIT
FPEX
T3X
JTFEX
Refresher TRNG
POM
PC C5RA
XA1
ALOA/ CS TST
AVCERT
XCZ Major Availability
SWAAT
LOA
HMERA I
MAT
CART II
IA
HMERA IV
Weapons Offload
Leave & Upkeep
A-0
A-45
R+0
WPIR A-30
XCZ 100% A-75
HMERA III
Deployment
XCZ 50% A-240
CFFC Exercises
CART I
XA4
Maintenance Team Significant Involvement
Maintenance Team Coordinates or Manages
Maintenance Execution Event Managed by Maintenance Team
"R+" Milestone
R+ Days
0
35
98
126
217
365
630
810
RFD
AVAIL
Post Avail
BASIC
INTERMED
ADVANCED
DEPLOY

Integrated Readiness Plan

Ship's planning documents:



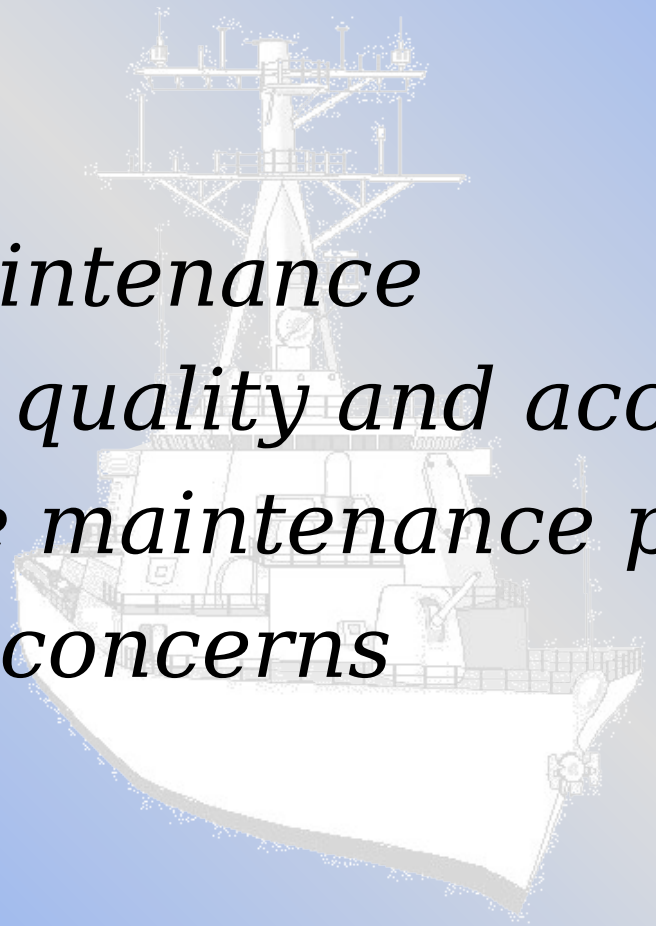
FROM KNOWLEDGE MU EFFECTIVENESS


INTEGRATED READINESS PLAN
and
PERSONNEL SCHEDULING TOOL
Electronic Service Jacket
Reoccurring Event
Special Event
ROUTINE
XO
DH's
SMMO
Factors
Leave
School & Training
Watch
DO & CPO
PB4R Results Completed Tue
Feedback
Completed Wed
Maintenance
Factors
Completed School & Tng
Direct Labor
Work Package Actions
Minor Corrective
PMS
PMS Scheduler Program
WCS
Feedback
Issue Friday Morning
Update Daily and Capture Actual Weekly

Planning Board for Maintenance Purpose

Review:

- *All Maintenance*
- *CSMP quality and accuracy*
- *Future maintenance planning*
- *Fiscal concerns*



Planning Board for Maintenance

- *Ship Commanding Officer – Co-Ch*
- *Port Engineer – Co-Chair*
- *Other Attendees*
  - *Ship's Maintenance Team*
  - *Others as designated by CO or PE*
- *PB for M Process*
  - *Frequency…At Least Monthly*
  - *Inputs*
  - *Agenda*
  - *Products*
  - *Follow-up*

ort Engineer prepares & forwards agenda to CO 48 hours in advance

POSSIBLE PRODUCTS

The Ship's Maintenance Business Plan

Maintenance & Modernization plan (5yr, 24mos (cycle), quarterly, and monthly

Validated ICMMP Task Requirements

Validated CSMP with priority schema

Ship's force work capacity loading plan

Financial Management Plan
- **Depot maintenance**
- **Continuous Maintenance**
- **Organizational**

Configuration Management Plan
- **Equipment validation Reports**
- **COSAL Updates**
- **Configuration Change Reports**

Corrosion Control Plan
- **Tanks and voids**
- **Internal & External other**

Material Self Assessment

Planning Board for Maintenance Agenda

A. Ship's Name
B. Date of meeting
C. Known schedule of key events
   1. Upkeep Periods
   2. INSURV
   3. Ship support requirements
   4. Assessment Visits
   5. COC/DH Visits
   6. Assist visits/AIT/surveys, etc.
   7. New Items
D. CASREPs & Departures from Specification
   1. Status*
   2. New (Anticipated)

* Enclosure to

Planning Board for Maintenance Agenda

E. Current Maintenance Issues

1. ***Provide applicable JCN with block 35 & work status****
2. ***Discuss current issues & problem areas***

F. Advance planning milestones & CNO availability issues (Dates)

1. ***Specification review***
2. ***Upcoming WPIC***
3. ***Major events to support – ammo off-load***
4. ***Arrival conference***
5. ***Avail dates***
6. ***Production status***
7. ***Dock Trial/Fast Cruise/Sea Trial Dates***

**** Enclosure (1)***

Planning Board for Maintenance Agenda

G. CSMP review

1. **As screened report***
2. **TA –4 jobs***
   a. *Completed*
   b. *New (integrate/de-conflict) with other known work*
      1. *Compare location*
      2. *Compare equipment/system*
      3. *Compare priority*
   c. *Screened to SF avail(Assist ship with assigning SF avail with dates)*
      1. *Concurrent CNO*
      2. *CM – planned accomplishment*
      3. *Emergent – unplanned accomplishment*
3. **Work Candidate return to ship issues***
4. **Work Candidates older than 180 days***

*** Enclosure to agenda**

Planning Board for Maintenance Agenda

H. Long term maintenance plan

1. 5 year plan (developed by MT) *

I. CNO avails

1. Assessments ICMMP

2. Certifications

3. Modernization

4. Homeport

5. Preservation

6. Integrated system refurbishment

7. Others

8. Discuss issues & update

I. Current metrics

J. Ship, CO, Maintenance Team issues

*** Enclosure to**

Maintenance Report

WEEKLY COORDINATED 3-M STATUS REPORT

WEEKLY PMS SUMMARY (date) to (date)	Scheduled	Completed	Resched	Expired	Partial	RAR	E-6 & Up Availability	E-6 & Up Spotchecks	Spotcheck Performance
EXECUTIVE	1					0%	1		0%
OPERATIONS	1					0%	1		0%
COMBAT SYSTEMS	1					0%	1		0%
WEAPONS	1					0%	1		0%
ENGINEERING	1					0%	1		0%
SUPPLY	1					0%	1		0%
Command Totals:	6	0	0	0	0	0%	6	0	0%

13-WEEK PMS SUMMARY	Scheduled	Completed	Resched	Expired	Partial	RAR	E-6 & Up Availability	E-6 & Up Spotchecks	Spotcheck Performance %
EXECUTIVE	1					0%	1		0%
OPERATIONS	1					0%	1		0%
COMBAT SYSTEMS	1					0%	1		0%
WEAPONS	1					0%	1		0%
ENGINEERING	1					0%	1		0%
SUPPLY	1					0%	1		0%
Command Totals:	6	0	0	0	0	0%	6	0	0%

CSMP Deferral Totals (Wed 6 FEB 02)	EXEC	OPS	CBS	WEPS	ENG	SUP	SHIP TOTAL
T/A=1 (Depot Level Work)							0
Safety Related T/A=1							0
T/A=2 (IMA Level Work)							0
Safety Related T/A=2							0
T/A=3 (Tech Assist Level Work)							0
Safety Related T/A=3							0
T/A=4 (Ship's Force Level Work)							0
Safety Related T/A=4							0
Total Active CSMP Deferrals	0	0	0	0	0	0	**0**
Total Active SAFETY Related CSMP Deferrals	0	0	0	0	0	0	**0**
Nr of jobs on return to customer report							
Last Ship - Shore CSMP file reconciliation							
Total Active CASREPs	0	0				0	**0**
CSMP Growth (date to date):							Last Report Totals
JSNs Completed:							
JSNs Cancelled:							

Maintenance Report

WEEKLY COORDINATED 3-M STATUS REPORT

EQUIPMENT VALIDATION SUMMARY							
	EXEC	OPS	CBS	WEPS	ENG	SUP	SHIP TOTAL
Equipment Line Item Totals							
Notional number of validations per week							
Validations completete for the week of							
Number not requiring corrective action							
Number requiring corrective action							
Number of validations complete for year							
Validations complete for current 5 yr cycle							

WORK PACKAGE DEVELOPMENT SUMMARY						
Active Work Packages: 0	Wk Pkgs Reviewed	CO:	0	DEPT	0	DIV 0
Gauge Calibration Percentage: XX% as of date			Electronic Calibration Percentage:XX% as of date			
Next FMAV:	X2X date to date		Next HME-RA I		date to date	
Next RAV / TAV:	X6X date to date		Next HME-RA II		date to date	
Next CNO Availability:	FY 0X date to date		Next C5RA		date to date	

ZONE INSPECTION SUMMARY							
	EXEC	OPS	CBS	WEPS	ENG	SUP	
Last Zone Inspection							
Next Zone Inspection							

Maintenance Report

WEEKLY COORDINATED 3-M STATUS REPORT

FROM KNOWLEDGE MU EFFECTIVENESS

3-M TRAINING SUMMARY SUMMARY							
3-M and QA PQS Qualification Status							
	EXEC	**OPS**	**CBS**	**WEPS**	**ENG**	**SUP**	**SHIP TOTAL**
Number of E-1 to E-6							
3-M WSC Qualified							
QA Craftsman Qualified							
QA Inspector Qualified							
SSE Designated							
QA WSC Qualified							
3-M Division Officer Qualified							
Number of E-7 to E-9							
3-M 301 Qualified							
3-M WSC Qualified							
QA Craftsman Qualified							
QA Inspector Qualified							
QA WSC Qualified							
3-M Division Officer Qualified							
3-M Coordinator Qualified							
Number of Officers							
3-M 301 Qualified							
3-M WSC Qualified							
QA WSC Qualified							
3-M Division Officer Qualified							
3-M Coordinator Qualified							
Number SWO Trainees							
3-M 301 Qualified							
3-M WSC Qualified							
3-M Division Officer Qualified							

RPPO and Configuration Management Training							
	EXEC	**OPS**	**CBS**	**WEPS**	**ENG**	**SUP**	**SHIP TOTAL**
RPPO Training Conducted							
Number of attendees							
Configuration Management Training							
Number of attendees							

Maintenance Report

WEEKLY PMS SUMMARY (1/14-1/20)	Scheduled	Completed	Resched	Expired	Partial	RAR	E-6 & Up Availability	E-6 & Up Spotchecks	Spotcheck Performance
EXECUTIVE	6	6				100%	5	0	0%
OPERATIONS	36	36				100%	15	15	100%
COMBAT SYSTEMS	217	210	7			97%	15	16	107%
WEAPONS	73	73				100%	14	11	79%
ENGINEERING	228	227	1			100%	20	16	80%
SUPPLY	13	13				100%	13	11	85%
Command Totals:	**573**	**565**	**8**	**0**	**0**	99%	**82**	**69**	84%

13-WEEK PMS SUMMARY	Scheduled	Completed	Resched	Expired	Partial	RAR	E-6 & Up Availability	E-6 & Up Spotchecks	Spotcheck Performance %
EXECUTIVE	75	74	1			99%	80	51	64%
OPERATIONS	368	365		3		99%	286	284	99%
COMBAT SYSTEMS	1509	1482	24	3		98%	459	601	131%
WEAPONS	1315	1309		6		100%	189	169	89%
ENGINEERING	3075	3049	17	9		99%	543	477	88%
SUPPLY	89	85	4			96%	461	430	93%
Command Totals:	**6431**	**6364**	**46**	**21**	**0**	**99%**	**2018**	**2012**	100%

MDS SUMMARY

CSMP Deferral Totals (Wed 6 FEB 02)	EXEC	OPS	CBS	WEPS	ENG	SUP	SHIP TOTAL
T/A=1 (Depot Level Work)	1	7	13	17	94	25	157
Safety Related T/A=1	0	1	0	0	5	0	6
T/A=2 (IMA Level Work)	15	80	20	44	112	17	288
Safety Related T/A=2	2	4	0	0	5	2	13
T/A=3 (Tech Assist Level Work)	0	9	13	64	29	2	117
Safety Related T/A=3	0	0	0	2	0	0	2
T/A=4 (Ship's Force Level Work)	23	81	296	134	437	37	1008
Safety Related T/A=4	3	2	5	2	8	5	25
Total Active CSMP Deferrals	39	177	342	259	672	81	**1570**
Total Active SAFETY Related CSMP Deferrals	5	7	5	4	18	7	**46**
Total Active CASREPs	0	0	5	2	1	0	**8**
Last Zone Inspection	17-Dec-01	21-Jan-02	7-Jan-02	26-Nov-01	14-Jan-02	28-Jan-02	**Last Report Totals**
Next Zone Inspection	4-Mar-02	25-Feb-02	18-Feb-02	4-Feb-02	18-Mar-02	15-Apr-02	**1494(48)**

CSMP Growth (24 Jan- 6 Feb):	343	JSNs Completed:	267	Next FMAV:	**222** 25 Feb-15Mar	
Active Work Packages: 0	Wk Pkgs Reviewed	CO:	0	DEPT	0	DIV 0
Gauge Calibration Percentage: 87% 3JAN02			Electronic Calibration Percentage: 85% 4 FEB02			

Managing Work

- *Two key elements*
- *Equally important but each very different*
  - *Work Load Planning*
  - *Work Action Planning*

More in next section

Command Level

Next Topic
Ship Maintenance Organization
part 2